WHAT IS CLAIMED IS:

- 1. A wiring board wherein an opening is defined at a
 2 predetermined position of a film-like insulating substrate, an
 3 electric wiring provided with a connection terminal covering the
 4 opening is disposed on a principal plane of the insulating substrate,
 5 and a conductive member to be connected with the connection terminal
 6 of the electric wiring is disposed inside the opening, comprising:
 7 said conductive member having a thickness from a surface on
 8 which said electric wiring of the insulating substrate has been
- 2. A wiring board as claimed in claim 2, wherein:
- a thickness of said conductive member is 1/2 or more of that of said insulating substrate.

disposed being thinner than that of said insulating substrate.

- 3. A wiring board as claimed in claim 1, wherein:
- said conductive member has a thinner thickness at the central portion of said opening than that of a vicinity of a side wall of said opening.
 - 4. A wiring board as claimed in claim 2, wherein:
- said conductive member has a thinner thickness at the central portion of said opening than that of a vicinity of a side wall of said opening.
- 1 5. A wiring board as claimed in claim 1, wherein:
- 2 said conductive member is made from any member selected from

- 3 the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
- 1 6. A wiring board as claimed in claim 2, wherein:
- 2 said conductive member is made from any member selected from
- 3 the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
- 7. A wiring board as claimed in claim 3, wherein:
- said conductive member is made from any member selected from
- 3 the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
- 8. A wiring board as claimed in claim 1, wherein:
- a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said
- 4 conductive member.
- 9. A wiring board as claimed in claim 2, wherein:
- a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said
- 4 conductive member.
- 1 10. A wiring board as claimed in claim 3, wherein:
- a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said
- 4 conductive member.
- 1 11. A wiring board as claimed in claim 4, wherein:
- a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said

4 conductive member.

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- 12. A semiconductor device wherein a wiring board in which an opening is defined at a predetermined position of a film-like insulating substrate, an electric wiring provided with a connection 3 terminal covering said opening is disposed on a principal plane of said insulating substrate, and a conductive member to be connected 5 with the connection terminal of said electric wiring is disposed inside the opening is placed; a semiconductor chip is placed on 7. the surface of said wiring board on which said electric wiring has been disposed; the electric wiring of said wiring board is 9 electrically connected with an external electrode of the 10 semiconductor chip; and said semiconductor chip, said electric 11 wiring, and connecting section for said electric wiring and said 12 external electrode of the semiconductor chip are sealed with a 13 sealing insulator, comprising: 14
- said conductive member having a thickness from a surface on
 the which said electric wiring of the insulating substrate has been
 formed being thinner than that of said insulating substrate.
 - 13. A semiconductor device as claimed in claim 12, wherein:
 2 said semiconductor chip is placed in such that a surface opposed
 3 to the surface on which said external electrode has been formed
 4 is opposed to said wiring board; and
 - said external electrode is connected with said electric wiring by means of a bonding wire.
 - 14. A semiconductor device as claimed in claim 12, wherein:

- 2 said semiconductor chip is placed in such that said external
- 3 electrode thereof is opposed to said wiring board; and
- said external electrode is connected with said electric wiring
- 5 by means of a protrusion conductor.
- 1 15. A semiconductor device as claimed in claim 8, wherein:
- a thickness of said conductive member is 1/2 or more of that
- 3 of said insulating substrate.
- 1 16. A semiconductor device as claimed in claim 12, wherein:
- a thickness of said conductive member is 1/2 or more of that
- 3 of said insulating substrate.
- 1 17. A semiconductor device as claimed in claim 13, wherein:
- a thickness of said conductive member is 1/2 or more of that
- 3 of said insulating substrate.
- 1 18. A semiconductor device as claimed in claim 14, wherein:
- a thickness of said conductive member is 1/2 or more of that
- 3 of said insulating substrate.
- 1 19. A semiconductor device as claimed in claim 8, wherein:
- 2 said conductive member has a thinner thickness at the central
- 3 portion of said opening than that of a vicinity of a side wall of
- 4 said opening.
- 20. A semiconductor device as claimed in claim 12, wherein:
- 2 said conductive member has a thinner thickness at the central

- 3 portion of said opening than that of a vicinity of a side wall of
- 4 said opening.
- 1 21. A semiconductor device as claimed in claim 13, wherein:
- 2 said conductive member has a thinner thickness at the central
- 3 portion of said opening than that of a vicinity of a side wall of
- 4 said opening.
- 1 22. A semiconductor device as claimed in claim 14, wherein:
- 2 said conductive member has a thinner thickness at the central
- 3 portion of said opening than that of a vicinity of a side wall of
- 4 said opening.
- 1 23. A semiconductor device as claimed in claim 15, wherein:
- said conductive member has a thinner thickness at the central
- 3 portion of said opening than that of a vicinity of a side wall of
- 4 said opening.
- 24. A semiconductor device as claimed in claim 8, wherein:
- said conductive member is made from any member selected from
- 3 the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
- 1 25. A semiconductor device as claimed in claim 12, wherein:
- 2 said conductive member is made from any member selected from
- 3 the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
- 1 26. A semiconductor device as claimed in claim 13, wherein:
- 2 said conductive member is made from any member selected from

- 3 the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
- 1 27. A semiconductor device as claimed in claim 14, wherein:
- 2 said conductive member is made from any member selected from
- 3 the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
- 1 28. A semiconductor device as claimed in claim 15, wherein:
- said conductive member is made from any member selected from
- 3 the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
- 29. A semiconductor device as claimed in claim 19, wherein:
- said conductive member is made from any member selected from
- 3 the group consisting of copper (Cu), nickel (Ni), and silver (Ag).
- 30. A semiconductor device as claimed in claim 8, wherein:
- a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said
- 4 conductive member.
- 1 31. A semiconductor device as claimed in claim 12, wherein:
- a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said
- 4 conductive member.
- 1 32. A semiconductor device as claimed in claim 13, wherein:
- a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said
- 4 conductive member.

- 1 33. A semiconductor device as claimed in claim 14, wherein:
- a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said
- 4 conductive member.
- 1 34. A semiconductor device as claimed in claim 15, wherein:
- a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said
- 4 conductive member.
- 1 35. A semiconductor device as claimed in claim 19, wherein:
- a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said
- 4 conductive member.
- 1 36. A semiconductor device as claimed in claim 24, wherein:
- a thin film layer made of nickel (Ni) and a thin film layer
- 3 made of gold (Au) are sequentially disposed on a surface of said
- 4 conductive member.
- 1 37. A process for the production of a wiring board, comprising
- 2 the steps of:
- defining an opening at a predetermined position of a film-like
- 4 insulating substrate;
- forming a conductive thin film on a principal plane of said
- 6 insulating substrate;
- 7 etching said conductive thin film to form an electric wiring

- 8 provided with a connection terminal covering said opening; and
- g forming a conductive member having a thickness equal to or
- 10 thinner than that of said insulating substrate.
 - 1 38. A process for the production of a wiring board, comprising
 - 2 the steps of:
 - defining an opening at a predetermined position of a film-like
 - 4 insulating substrate;
 - forming a conductive thin film on a principal plane of said
 - 6 insulating substrate;
 - 7 etching said conductive thin film to form an electric wiring
 - 8 provided with a connection terminal covering said opening;
 - forming a conductive member having a thickness equal to or
 - 10 thinner than that of said insulating substrate; and
 - forming sequentially a thin film layer made of nickel (Ni)
 - 12 and a thin film layer made of gold (Au) on the surfaces of said
 - 13 electric wiring and said conductive member.
 - 1 40. A process for the production of a wiring board as claimed
 - 2 in claim 37, wherein:
 - a step for forming said conductive member is effected by forming
 - 4 a copper (Cu) plating or a nickel (Ni) plating in accordance with
 - 5 electroplating method.
 - 1 41. A process for the production of a wiring board as claimed
 - 2 in claim 38, wherein:
 - 3 a step for forming said conductive member is effected by forming
 - 4 a copper (Cu) plating or a nickel (Ni) plating in accordance with

- 5 electroplating method.
- 1 42. A process for the production of a wiring board as claimed
- 2 in claim 37, wherein:
- a step for forming said conductive member is effected by forming
- 4 a nickel (Ni) plating in accordance with electroless plating method.
- 1 43. A process for the production of a wiring board as claimed
- 2 in claim 38, wherein:
- a step for forming said conductive member is effected by forming
- 4 a nickel (Ni) plating in accordance with electroless plating method.
- 1 43. A process for the production of a wiring board as claimed
- 2 in claim 37, wherein:
- a step for forming said conductive member is effected by such
- 4 a manner that the inside of said opening is filled with a conductive
- 5 paste of silver (Ag) or copper (Cu), and said conductive paste is
- 6 solidified.
- 1 44. A process for the production of a wiring board as claimed
- 2 in claim 38, wherein:
- a step for forming said conductive member is effected by such
- 4 a manner that the inside of said opening is filled with a conductive
- 5 paste of silver (Ag) or copper (Cu), and said conductive paste is
- 6 solidified.
- 1 45. A process for the production of a wiring board as claimed
- 2 in claim 37, wherein:

a step for forming said conductive member is effected by such a manner that said conductive member has a thinner thickness at the central portion of said opening than that of a vicinity of a

side wall of said opening.

- 1 46. A process for the production of a wiring board as claimed 2 in claim 38, wherein:
- a step for forming said conductive member is effected by such
 a manner that said conductive member has a thinner thickness at
 the central portion of said opening than that of a vicinity of a
 side wall of said opening.
- 1 47. A process for the production of a wiring board as claimed 2 in claim 39, wherein:
- a step for forming said conductive member is effected by such a manner that said conductive member has a thinner thickness at the central portion of said opening than that of a vicinity of a side wall of said opening.
- 1 48. A process for the production of a wiring board as claimed 2 in claim 41, wherein:
- a step for forming said conductive member is effected by such a manner that said conductive member has a thinner thickness at the central portion of said opening than that of a vicinity of a side wall of said opening.
- 1 49. A process for the production of a wiring board as claimed 2 in claim 43, wherein:

- a step for forming said conductive member is effected by such
- 4 a manner that said conductive member has a thinner thickness at
- 5 the central portion of said opening than that of a vicinity of a
- 6 side wall of said opening.